

ABSTRACT OF THE DISCLOSURE

A light-emitting element has a characteristic that deterioration caused not only by aging but also by temperature change occurs. The present invention is characterized by having two compensation functions of an aging compensation function and a temperature compensation function (hereinafter collectively referred to as compensation function) in order to correct temperature change and deterioration caused by temperature change. The compensation function, which is a key of the present invention, is characterized by including: a temperature detection unit which detects an ambient temperature; a storage unit having stored therein a temperature characteristic and an aging characteristic of the light-emitting element; an arithmetic operation unit which calculates a lighting period of each pixel using an output of the temperature detection unit, the temperature characteristic, and a video signal; a count unit which detects a cumulated lighting period of each pixel using an output of the arithmetic operation unit; and a correction unit which corrects a video signal to be inputted to each pixel or a power supply potential using the aging characteristic and the cumulated lighting period.